

1600

FNTERED

#

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/771,209B

DATE: 04/21/2003 P.6

TIME: 15:26:47

Input Set : A:\38586-B.txt

Output Set: N:\CRF4\04212003\1771209B.raw

```
3 <110> APPLICANT: Buck, Linda B
       Axel, Richard
 6 <120> TITLE OF INVENTION: Odorant Receptors and Uses Thereof
 8 <130> FILE REFERENCE: 38586-B
10 <140> CURRENT APPLICATION NUMBER: US 09/771,209B
11 <141> CURRENT FILING DATE: 2001-01-26
13 <150> PRIOR APPLICATION NUMBER: US 08/129,079
14 <151> PRIOR FILING DATE: 1993-10-05
16 <160> NUMBER OF SEQ ID NOS: 98
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 954
22 <212> TYPE: DNA
23 <213> ORGANISM: Rattus sp.
25 <400> SEQUENCE: 1
26 atggaatcag ggaacagcac aagaagattt tcaagttttt ttcttcttgg atttacagaa
                                                                          60
28 aacccacaac ttcacttcct catttttgca ctattcctgt ccatgtacct ggtaacagtg
                                                                         120
30 cttgggaacc tgcttatcat tatggccatc atcacacagt ctcatttgca tacacccatg
                                                                         180
32 tactttttcc ttgctaacct atcetttgtg gacatetgtt tcacctccac caccatecca
                                                                         240
34 aagatgttgg taaatatata cacccagagc aagagcatca cctatgaaga ctgtattagc
                                                                         300
36 cagatgtgtg tettettggt tttegeagaa ttgggeaact tteteetgge tgtgatggee
                                                                         360
38 tatgacegat atgtggetaa etgteaceca etgtgttaca eagteattgt gaaceaeegg
                                                                         420
40 ctctgtatcc tgctgcttct gctgtcctgg gttatcagca ttttccatgc cttcatacag
                                                                         480
42 agcttaattg tgctacagtt gaccttctgt ggagatgtga aaatccctca cttcttctgt
                                                                         540
44 gaacttaatc agctgtccca actcacctgt tcagacaact ttccaagtca cctcataatg
                                                                         600
46 aatettgtae etgttatgtt ggeageeatt teetteagtg geateettta etettattte
                                                                         660
48 aagatagtat cetecataca ttetatetee acagtteagg ggaagtacaa ggeattttet
                                                                         720
50 acttgtgcct ctcacctttc cattgtctcc ttattttata gtacaggcct cggagtgtac
                                                                         780
52 gtcagttctg ctgtggtcca aagetcacat tctgctgcaa gtgettcggt catgtatact
                                                                         840
54 gtggtcaccc ccatgctgaa ccccttcatt tatagtctaa ggaataaaga tgtgaagaga
                                                                         900
56 gctctggaaa gactgttaga aggaaactgt aaagtgcatc attggactgg atga
                                                                         954
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 1002
61 <212> TYPE: DNA
62 <213> ORGANISM: Rattus sp.
64 <400> SEQUENCE: 2
65 atggactcaa gcaacaggac aagagtttca gaatttcttc ttcttggatt tgtagaaaac
                                                                          60
67 aaagacctac aaccccttat ttatggtctt tttctctcta tgtacctggt tactgtcatt
                                                                         120
69 ggaaacatat ccattattgt ggctatcatt tcagatccct gtctgcacac ccccatgtat
                                                                         180
71 ttcttcctct ctaacctgtc ctttgtggac atctgtttca tttcaaccac tgttccaaag
                                                                         240
73 atgttagtga acatccagac ccaaaacaat gtcatcacct atgcaggatg cattacccag
                                                                         300
```

75 atatactttt tcttgctctt tgtagaattg gacaacttct tgctgactat catggcctat

77 gaccettacg tagccatctg tcaccccatg cactacacag ttatcatgaa ctacaagctc

360

420

Input Set : A:\38586-B.txt

·	
79 tgtggatttc tggttctggt atcttggatt gtaagtgttc tgcatgcctt gtttcaaagc	480
81 ttgatgatgt tggcgctgcc cttctgcaca catctggaaa tcccacacta cttctgtgaa	540
83 cctaatcagg tgattcaact cacctgttct gatgcatttc ttaatgatct tgtgatatat	600
85 tttacacttg tgctgctggc tactgttcct cttgctggca tcttctattc ttacttcaag	660
87 atagtgtcct ccatatgtgc tatatcgtca gttcatggga agtacaaagc attctccacc	720
89 tgtgcatctc acctttcagt cgtgtcttta ttttactgca caggactagg agtgtacctc	780
91 agttctgctg caaacaacag ctcacaggca agtgccacag cctcagtcat gtacactgta	840
93 gttaccccta tggtgaaccc ttttatctat agtcttagga ataaagatgt taagagtgtt	900
95 ctgaaaaaaa ctctttgtga ggaagttata aggagtccac cttccctact tcatttcttc	960
97 ctagtgttat gtcatctccc ttgttttatt ttttgttatt aa	1002
100 <210> SEQ ID NO: 3	
101 <211> LENGTH: 942	
102 <212> TYPE: DNA	
103 <213> ORGANISM: Rattus sp.	
105 <400> SEQUENCE: 3	
105 (400) SEQUENCE: 5 106 atgageagea ceaaceagte cagtgteace gagtteetee teetgggaet etecaggeag	60
108 coccagoago agoagotoot ottootgoto ttootoatoa tgtacotggo cactgtootg	
110 ggaaacetge teateateet ggetattgge acagacteec geetgeacae ceccatgtae	
112 ttetteetea gtaacetgte etttgtggat gtetgettet eetetaeeae tgteeetaaa	
114 gttctggcca accatatact tgggagtcag gccatttcct tctctgggtg tctcacccag	
116 ctgtattttc tcgctgtgtt tggtaacatg gacaatttcc tgctggctgt gatgtcctat	
118 gaccgatttg tggccatatg ccacccttta cactacacaa caaagatgac ccgtcagctc	
120 tgtgtcctgc ttgttgtggg gtcatgggtt gtagccaaca tgaattgtct gttgcacata	
122 ctgctcatgg ctcgactctc cttctgtgca gacaacatga tcccccactt cttctgtgat	
124 ggaactcccc tcctgaaact ctcctgctca gacacacatc tcaatgagct gatgattctt	
126 acagagggag ctgtggtcat ggtcacccca tttgtctgca tcctcatctc ctacatccac	660
128 atcacctgtg ctgtcctcag agtctcatcc cccaggggag gatggaaatc cttctccacc	720
130 tgtggctccc acctggctgt ggtctgcctc ttctatggca ccgtcatcgc tgtgtatttc	780
132 aacccatcat cctctcactt agctgggagg gacatggcag ctgcagtgat gtatgcagtg	840
134 gtgaccccaa tgctgaaccc tttcatctat agcctgagga acagcgacat gaaagcagct	900
136 ttaaggaaag tgctcgccat gagatttcca tctaagcagt aa	942
139 <210> SEQ ID NO: 4	
140 <211> LENGTH: 936	
141 <212> TYPE: DNA	
142 <213> ORGANISM: Rattus sp.	
144 <400> SEQUENCE: 4	
145 atggcttgga gtactggcca gaacctgtcc acaccaggac cattcatctt gctgggcttc	60
147 ccagggccaa ggagcatgcg cattgggctc ttcctgcttt tcctggtcat gtatctgctt	120
149 acggtagttg gaaacctagc catcatctcc ctggtaggtg cccacagatg cctacagaca	180
151 cccatgtact tetteetetg caacetetee tteetggaga tetggtteae cacageetge	240
153 gtacccaaga ccctggccac atttgcgcct cggggtggag tcatttcctt ggctggctgt	300
155 gccacacaga tgtactttgt cttttctttg ggctgtaccg agtacttcct gctggctgtg	
153 gecacataga tytactity: efficiently gyetytaeeg agtacticet getygetyty 157 atggettatg acceptacet gecatetge etgecaetge getatggtgg cateatgaet	420
	480
159 cctgggctgg cgatgcggtt ggccctggga tcctggctgt gtgggttttc tgcaatcaca	540
161 gttcctgcta ccctcattgc ccgcctctct ttctgtggct cacgtgtcat caaccacttc	
163 ttctgtgaca tttcgccctg gatagtgctt tcctgcaccg acacgcaggt ggtggaactg	600
165 gtgtcctttg gcattgcctt ctgtgttatt ctgggctcgt gtggtatcac actagtctcc	660
167 tatgettaca teateactae cateateaag attecetetg eeegggeeg geaeeggee	720
169 ttctcaacct gctcatccca tctcactgtg gtgctgattt ggtatggctc caccatcttc	780

Input Set : A:\38586-B.txt

171	ttgcatgtga ggacctcggt agaga	jctcc	ttggacctca	ccaaagctat	cacagtgctc	840
173	aacaccattg tcacacctgt gctga	accct	ttcatatata	ctctgaggaa	caaggatgtc	900
175	aaggaagete tgegeaggae ggtgaa	agggg	aaqtqa			936
	<210> SEQ ID NO: 5					
	<211> LENGTH: 939					
	<212> TYPE: DNA					
	<213> ORGANISM: Rattus sp.					
	-			*		
	<400> SEQUENCE: 5					
	atgactggaa ataaccaaac tttga					60
	tcagagtatc atctcctgtt ctatge					120
	ggaaacctgc taatcattgt ccttg					180
190	ttgtttctca gcaacttgtc cttctc	tgac	ctctgctttt	cctctgtcac	aatgcccaaa	240
192	ttgcttcaga acatgcagag ccaagt	acca	tctatatcct	atacaggctg	cctgacacag	300
194	ctgtacttct ttatggtttt tggaga	itatg	gagagettee	ttcttgtggt	catggcctat	360
	gaccgctatg tggccatttg ctttco	_				420
	tgtgcttcac tagtgctact tctgtg	_	_		_	480
	ctactcattg ctagattgtc ttttt					540
	atttctgctc ttctgaagtt gtcctg					600
	atcttgggtg gactcatcat tattal					660
	attttcttct ccattttgaa gtttc					720
	tgtggttccc atctgtctgt ggtgac					780
	tgtccatcag gtaataattc tactgt					840
	gtgactccca tgctgaatcc cttcat			acagagacat	gaaaagggcc	900
	ctaataagag ttatctgcac taagaa	aatc	tctctgtaa			939
	<210> SEQ ID NO: 6				•	
	<211> LENGTH: 945					
	<212> TYPE: DNA					
220	<213> ORGANISM: Rattus sp.					
222	<400> SEQUENCE: 6				•	
223	atgacagaag agaaccaaac tgtgat	ctcc	cagttccttc	tccttttcct	gcccatcccc	60
	tcagagcacc agcacgtgtt ctacgo					120
	gggaacctca tcatcatcat cctcat					180
	ttgtttctca gcaacttgtc cttctc					240
	ttgttgcaga acatgcagag ccaagt					300
	ttatactttt acctgtattt tgcaga					360
	gaccgctatg tggccatctg cttcc					420
						480
	tgtgtgagtc tggtggtgct gtcctg					
	ctgctcatgg ccagattgtc attctc		-			540
	atateteett tattgaaact gteete					600
	gtcatgggag ggcttgttat tgtcat					660
	gttgtcgcct ccattcttaa agtccc					720
	tgcggctccc atctgtctgt ggtgtc					780
	tgtccgtcag ctaataactc tactgt					840
	gtgaccccca tgctgaaccc cttcat				gaaagaggca	900
253	ctgataagag tcctttgtaa aaagaa	aatt a	accttctgtc	tatga		945
	<210> SEQ ID NO: 7					
257	<211> LENGTH: 933					
	<212> TYPE: DNA					
	<213> ORGANISM: Rattus sp.					
	· •					

Input Set : A:\38586-B.txt

261	MANA GROUPNAR 7					
	<400> SEQUENCE: 7		attataata	~~~+~~~~+		C 0
	atgaacaatc aaactttcat catcagcacc tgttctatgc					60
	ttgctaatca ttgtacttgt		-			120 180
	ctcagcaatt tgtctttctc					240
	-		_	_		300
	cagaacatga ggagccagga					360
	ttctttatgg tttttggaga		_			420
	tatgtggcca tctgcttccc tgtctagtgc tgttattgtg					480
			_		-	540
	gcagcaagat tgtctttttg gttctcctaa agctggcctg			_	_	600
	agtacactcc tcattattat	-	_		_	660
	tcctctattc ttaaggttcc					720
	tcccatctgt ctgtagtatc					780
		_			_	
	gcaggtaata attccactgt					840 900
	cccatgctga atcccttcat			acacgaagag	ggccctaata	
	agagttatct gtagtatgaa	aatcactctg	Laa			933
	<210> SEQ ID NO: 8 <211> LENGTH: 984				·	
	<212> TYPE: DNA <213> ORGANISM: Rattus	a an				
	<400> SEQUENCE: 8	s sp.				
		+~~~~~	2010221110	+~++~~+~~	+++	60
	atggagcgaa ggaaccacag cctgccccac tgcgagtact					120
	actgaaaaca tgctcatcat tatttttct tggctaatat					180 240
	aagatgctcg ctggcttcat					300
						360
	gcatgcatga cacaactcta					420
	gctgtgatgg cctatgaccg					480
	gtcagtagcc ggctatgtgt					540
	tccatggtta aagttttcct					600
	cactttttct gtgatgtgtc					660
	<pre>gagcttacag actttgtcct gcatcctaca tggccatcac</pre>					720
						780
	<pre>aaagcctttt caacctgtgc attttcatct atgccaggcc</pre>					840
	gtactctacg ctgtcattgt					900
	gatgtcaaaa gagcgctacg			-		960
	aacaaaggca gcaaaattgg		cacciggeee	ayyaccayya	ggccaatacc	984
		LLay				904
	<210> SEQ ID NO: 9 <211> LENGTH: 939					
	<212> TYPE: DNA					
	<213> ORGANISM: Rattus					
	<400> SEQUENCE: 9	. sp.				
	atgaacaaca aaactgtcat	as agasttta	atastsstaa	anttagant	0000000000	
	caccagcaac tgttctttgc					60 120
	ctgctaattg ttgtccttgt					180
	ctcagcaact tgtccttctc					240
	caaaatatac agagccaagt					300
330	caaaatatac ayayeeaagt	accalctata	coccatgoag	yatycctgac	acayatattc	300

Input Set : A:\38586-B.txt

	ttctttttgt tgtttggcta		_			360
	tatgtggcca tctgcttccc					420
	tgtctcctgc tggtattttg	-	_		-	480
	gcagcaagat tgtctttttg					540
	gttctcctaa agttggcctg					600
	ggcgtgatca tcattgttat					660
364	tcctccattc ttaaggttcc	atctactcaa	agcattcaca	aggtcttctc	cacttgtggt	720
366	tctcatctct ctgtggtgtc	tctgttctac	gggacaatta	ttggtctcta	tttatgtcca	780
368	tcaggtgata attttagtct	aaaggggtct	gccatggcta	tgatgtacac	agtggtaact	840
370	ccaatgctga acccgttcat	ctacagccta	agaaacagag	acatgaagca	ggccctaata	900
372	agagttacct gtagcaagaa	aatctctctg	ccatggtag			939
375	<210> SEQ ID NO: 10					
376	<211> LENGTH: 945		•			
377	<212> TYPE: DNA					
378	<213> ORGANISM: Rattus	s sp.				
380	<400> SEQUENCE: 10	-				
381	atgactagaa gaaaccaaac	tgccatctct	cagttcttcc	ttctgggcct	gccattcccc	60
	ccagagtacc aacacctgtt					120
	gggaacetca teatcateat					180
	ttgtttctca gcaatttatc				-	240
	ttgttgcaga acatgcagag		-	_		300
	atatacttct ttctgttttt					360
	gaccgctatg tggccatctg					420
	tgtgtgagtc tggtggtgct					480
	ctgctcatgg ccagattgtc					540
	atgtctactc tgctgaaagt					600
	atcttagggg gccctatagt					660
	attgtttcct ccatcttcaa					720
	tgtggctccc acctgtctgt					780
	tgtccttcag ctaataactc					840
	gtgacaccca tgctgaaccc					900
	ttagaaaaaa taatgtgcaa					945
	<210> SEQ ID NO: 11	,				
	<211> LENGTH: 645					
	<212> TYPE: DNA					
	<213> ORGANISM: Rattus	S SD.				
	<220> FEATURE:	- F				
	<221> NAME/KEY: misc_i	feature				
	<222> LOCATION: (440)					
	<223> OTHER INFORMATION	• •	nown			
	<400> SEQUENCE: 11					
	atctgttttg tgtctaccac	tgtcccaaag	cagetggtga	acatccagac	асададсада	60
	gtcatcacct atgcagactg					120
	gacagettae teetgaetgt					180
	cactacacag tcattatgag					240
	gtgagcatcc tatattctct					300
	gaactgaaaa tccctcaatt					360
	gacactttta ttaatgacat					420
	ctcgctggaa tattttactn					480
- 10	googgaa cacceacti		a cac cecy ce	gou categoric	Jacobacca	-100

Input Set : A:\38586-B.txt

Output Set: N:\CRF4\04212003\I771209B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:11; N Pos. 440,441
Seq#:12; Xaa Pos. 147
Seq#:13; N Pos. 182,205,206,207,208,209,210,211,212,213,214,215,216,217,218
Seq\#:13; \ \ N \ \ Pos. \ \ 219,220,221,222,223,224,225,226,227,228,229,230,231,232,233
Seq#:13; N Pos. 234,235,236,237,238,239,240,241,242,243,244,245,246,247,248
Seq#:13; N Pos. 249,250,251,252,253,254,255,256,257,258,259,260,261,262,263
Seq#:13; N Pos. 264,265,266,267,268,269,270,271,272,273,274,275,276,277,278
Seq#:13; N Pos. 279,280,281,282,283,284,285,286,287,288,289,290,291,292,293
Seq#:13; N Pos. 294,295,296,297,298,299,300,301,302,303,304,305,306,307,308
Seq#:13; N Pos. 309,310,311,312,313,314,315,316,317,318,319,320,321,322,323
Seq#:13; N Pos. 324,325,326,327,328,329,330,331,332,333,334,335,336,337,338
Seq#:13; N Pos. 339,340,341,342,343,344,345,346,347,348,349,350,351,352,353
Seq#:13; N Pos. 354,355,356,357,358,359,360,361,362,363,364,365,366,367,368
Seq#:13; N Pos. 369,370,371,372,373,374,375,376,377,378,379,380,381,382,383
Seq#:13; N Pos. 384,385,386,387,388,389,390,391,392,393,394,395,396,397,398
Seq#:13; N Pos. 399,400,401,402,403,404,405,406,407,408,409,410,411,412,413
Seq#:13; N Pos. 414,415,416,417,418,419,420,421,422,423,424,425,426,427,428
Seq#:13; N Pos. 494,495
Seq#:14; Xaa Pos. 61,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85
Seq#:14; Xaa Pos. 86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103
Seq#:14; Xaa Pos. 104,105,106,107,108,109,110,111,112,113,114,115,116,117
Seq#:14; Xaa Pos. 118,119,120,121,122,123,124,125,126,127,128,129,130,131
Seq#:14; Xaa Pos. 132,133,134,135,136,137,138,139,140,165
Seq#:21; N Pos. 270,271,272;273,274
Seq#:22; Xaa Pos. 90,91
Seq#:23; N Pos. 1,236,237,238,239,240,241,242,243,244,245,246,247,248,249
Seq#:23; N Pos. 250,251,252,253,254,255,256,257,258,259,260,261,262,263,264
Seq#:23; N Pos. 265,266,267,268,269,270,271,272,273,274,275,276,277,278,279
Seq#:23; N Pos. 280,281,282,283,284,285,286,287,288,289,290,291,292,293,294
Seq#:23; N Pos. 295,296,297,298,299,300,301,302,303,304,305,306,307,308,309
Seq#:23; N Pos. 310,311,312,313,314,315,316,317,318,319,320,321,322,323,324
Seq#:23; N Pos. 325,326,327,328,329,330,331,332,333,334,335,336,337,338,339
Seq#:23; N Pos. 340,341,342,343,344,345,346,347,348,349,350,351,352,353,354
Seq#:23; N Pos. 355,356,357,358,359,360,361,362,363,364,365,366,367,368,369
Seq#:23; N Pos. 370,371,372,373,374,375,376,377,378,379,380,381,382,383,384
Seq#:23; N Pos. 385,386,387,388,389,390,391,392,393,394,395,396,397,398,399
Seq#:23; N Pos. 400,401,402
Seq#:24; Xaa Pos. 79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97
Seq#:24; Xaa Pos. 98,99,100,101,102,103,104,105,106,107,108,109,110,111,112
Seq#:24; Xaa Pos. 113,114,115,116,117,118,119,120,121,122,123,124,125,126
Seq#:24; Xaa Pos. 127,128,129,130,131,132,133,134
Seq#:25; N Pos. 236,237,238,239,240,241,242,243,244,245,246,247,248,249,250
Seq#:25; N Pos. 251,252,253,254,255,256,257,258,259,260,261,262,263,264,265
Seq#:25; N Pos. 266,267,268,269,270,271,272,273,274,275,276,277,278,279,280
```

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/771,209B

TIME: 15:26:48

Input Set : A:\38586-B.txt

Output Set: N:\CRF4\04212003\1771209B.raw

Seq#:25; N Pos. 281,282,283,284,285,286,287,288,289,290,291,292,293,294,295
Seq#:25; N Pos. 296,297,298,299,300,301,302,303,304,305,306,307,308,309,310
Seq#:25; N Pos. 311,312,313,314,315,316,317,318,319,320,321,322,323,324,325
Seq#:25; N Pos. 326,327,328,329,330,331,332,333,334,335,336,337,338,339,340
Seq#:25; N Pos. 341,342,343,344,345,346,347,348,349,350,351,352,353,354,355
Seq#:25; N Pos. 356,357,358,359,360,361,362,363,364,365,366,367,368,369,370
Seq#:25; N Pos. 371,372,373,374,375,376,377,378,379,380,381,382,383,384,385

VERIFICATION SUMMARY PATENT APPLICATION: US/09/771,209B DATE: 04/21/2003 TIME: 15:26:48

Input Set : A:\38586-B.txt
Output Set: N:\CRF4\04212003\1771209B.raw

```
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:420 L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:144
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:180
M:341 Repeated in SeqNo=13
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:48
M:341 Repeated in SeqNo=14
L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:240
L:966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:80
L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:1056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:64
M:341 Repeated in SeqNo=24
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:180
M:341 Repeated in SeqNo=25
L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:64
M:341 Repeated in SeqNo=26
L:1218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180
L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:48
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:120
L:1412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:48
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:180
M:341 Repeated in SeqNo=35
L:1566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:64
M:341 Repeated in SeqNo=36
L:1648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:2040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:2132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:2224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:2332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:2366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:2400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:2434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:2462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:2490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:2524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:2558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:2580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:2602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:2641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
```

VERIFICATION SUMMARY

DATE: 04/21/2003

PATENT APPLICATION: US/09/771,209B

TIME: 15:26:48

Input Set : A:\38586-B.txt

Output Set: N:\CRF4\04212003\I771209B.raw

L:2680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0 L:2713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0